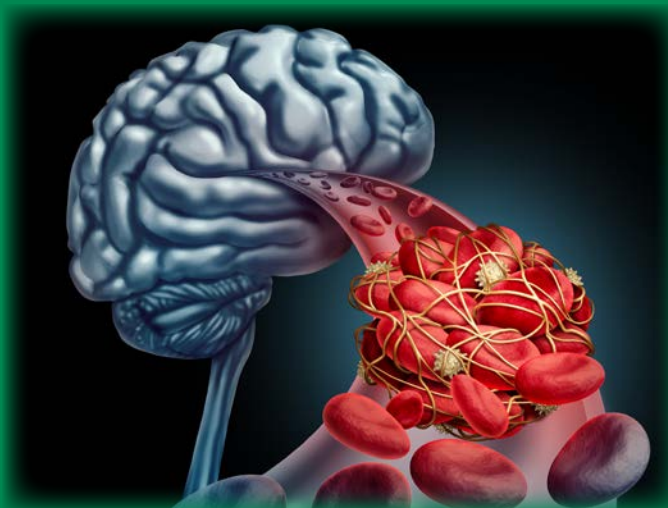
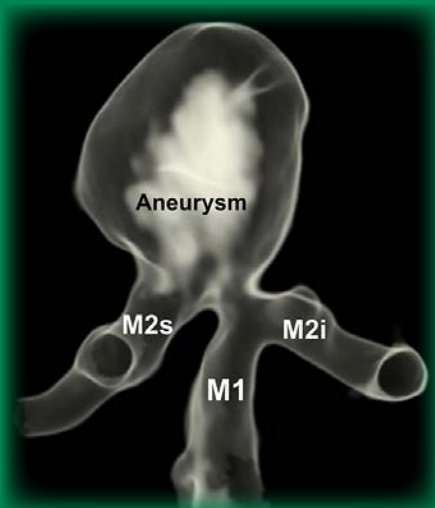
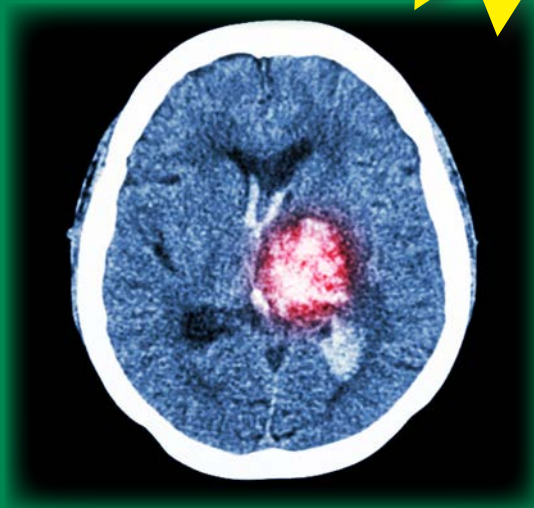


Cleveland Clinic Innovations in Cerebrovascular Care 2018

June 7–8, 2018

InterContinental Hotel and Bank of America
Conference Center
Cleveland, OH

**Register
by April 30
and SAVE!**



Register Today! www.ccfcmec.org/IIICC18

Cleveland Clinic Innovations in Cerebrovascular Care 2018

Overview

Care of cerebrovascular conditions continues to advance at a rapid pace. The Cleveland Clinic Innovations in Cerebrovascular Care 2018 meeting aims to focus on clinical care and technological advances in the field, as well as provide a multidisciplinary discussion around some of the greatest challenges practitioners from the neurosciences and other fields face in caring for these complex patients.

Who Should Attend?

This educational activity is intended for neurologists, neurosurgeons, critical care physicians, radiologists, emergency medicine physicians, primary care physicians, nurses, advanced practice providers and allied health professionals who treat cerebrovascular patients.

Learning Objectives

After completing this educational activity, participants will be able to do the following:

- Critically appraise the safety and efficacy data on device innovations that are designed to treat cardiac defects as well as their effect on reducing stroke risks.
- List the new aneurysm treatment devices and summarize the evidence supporting expanded surgical options for repairing aneurysms and treating acute hemodynamic failure.
- Describe the techniques and innovations in endovascular surgery and their potential clinical implications for emergent large-vessel occlusion (ELVO) stroke, intracerebral hemorrhage (ICH), and arteriovenous malformation (AVM) treatment.
- Provide a critical review of clinical innovations in stroke care, including technology developments for mobile stroke units, and describe their use to improve stroke outcomes.
- Describe advances in critical care for patients with stroke, including invasive and non-invasive monitoring, cerebral edema management, and telemedicine, and define their role in clinical care.

Cleveland Clinic Course Director



M. Shazam Hussain, MD, FRCP(C), FAHA*

Director, Cerebrovascular Center
Staff, Vascular Neurology and
Endovascular Surgical Neuroradiology
Associate Professor, Cleveland Clinic Lerner
College of Medicine

Cleveland Clinic Co-Directors



Mark Bain, MD, MS, FAANS*

Head of Cerebrovascular Neurosurgery and
Endovascular Surgical Neuroradiology
Staff, Department of Neurosurgery and
Cerebrovascular Center
Assistant Professor, Cleveland Clinic Lerner
College of Medicine Department of Surgery



Andrew Russman, DO*

Head, Cleveland Clinic Stroke Program
Medical Director, Comprehensive
Stroke Center
Staff, Vascular Neurology



Joao Gomes, MD, FAHA*

Head, Neurointensive Care Unit
Staff, Cerebrovascular Center



Ken Uchino, MD*

Director, Vascular Neurology Fellowship
Staff, Vascular Neurologist

Cleveland Clinic Innovations in Cerebrovascular Care 2018

Guest Speakers

Barbara Douglas, DNP, MBA, MSHS, CRNA

Board Member, Ohio Board of Nursing
Past President, Ohio State Association of Nurse Anesthetists
Chardon, OH

Brian Jankowitz, MD

Assistant Professor
Co-Director, Endovascular Therapy
Director, Neuroendovascular Fellowship Program
University of Pittsburgh
Pittsburgh, PA

Chris Kellner, MD

Assistant Professor, Neurosurgery
Neurosurgeon
Mount Sinai Beth Israel
New York, NY

Michael Kelly MD, PhD, FRCSC, FACS, FAANS

Associate Professor of Neurosurgery, Medical Imaging,
and Anatomy & Cell Biology
Founder and Director, Saskatchewan Cerebrovascular
Centre and Saskatchewan Clinical Stroke Research Chair
University of Saskatchewan
Saskatoon, Saskatchewan, Canada

Kenneth Papesh

Fire Chief, City of Valley View
Valley View, OH

Steven Rega

Fire Chief, City of Independence
Independence, OH

Adnan Siddiqui, MD, PhD, FAHA

Vice-Chairman and Professor of Neurosurgery
Department of Neurosurgery
Jacobs School of Medicine & Biomedical Sciences
University at Buffalo
Buffalo, NY

Gary Steinberg, MD, PhD

Chair of Neurosurgery
Director of the Stanford Moyamoya Center
Founder and Co-Director, Stanford Stroke Center
Stanford University
Stanford, CA

Joseph Warner, EFO

Lieutenant, City of Garfield Heights
Garfield Heights, OH

Herbert Waugh

Fire Chief, City of Warrensville Heights
Warrensville Heights, OH

Cleveland Clinic Faculty

Samer Abubakr, MD

Christine Ahrens, PharmD, RPh

Dhimant Dani, MD

Brad Douglas, MSN, ACNP-BC*

James Gebel, MD

Pravin George, DO

Joseph Keller, PA-C, MHS

Zeshaun Khawaja, MD

Amar Krishnaswamy, MD

Christine Lynch, CNP

David Majdalany, MD

Thomas Masaryk, MD

Nina Moore, MD

*planning committee members

Dileep Nair, MD

Christopher Newey, DO

Peter O'Neill

Peter Rasmussen, MD

Tina Resser, MSN, ACNP-BC, FNP-BC, CNRN*

Walid Saliba, MD

James Sauto, Jr., MD

Bill Sillasen, RN, BSN, EMS-I

John Suh, MD

Jayshree Sundararajan, MD

Gabor Toth, MD

Dolora Wisco, MD

Agenda

Thursday, June 7, 2018

7:00 am **Registration/Continental Breakfast/Indoor & Outdoor Exhibits**

8:00 am **Welcome and Introduction**
Shazam Hussain

Session I: Devices to Reduce Cardioembolic and Cryptogenic Stroke Risk

Moderator: Andrew Russman

8:15 am **Left Atrial Appendage Occlusion**
Walid Saliba

8:45 am **PFO and ASD Closure**
David Majdalany

9:15 am **Case Discussion Panel: Crossroads of Cerebrovascular Diseases and Cardiology**
James Gebel, Amar Krishnaswamy, David Majdalany, Walid Saliba, Ken Uchino

10:00 am **Refreshment Break/Indoor & Outdoor Exhibits**

Session II: Envisioning Solutions to Difficult Clinical Problems

Moderator: Shazam Hussain

10:30 am **Case Discussion Panel: Complex Aneurysm Management**
Mark Bain, Chris Kellner, Thomas Masaryk, Gary Steinberg

11:15 am **Case Discussion Panel: Acute Hemodynamic Failure & ELVO**
Joao Gomes, Peter Rasmussen, Gabor Toth, Dolora Wisco

12:00 pm **Lunch/Indoor & Outdoor Exhibits**

Session III: Future Directions in Endovascular and Surgical Therapy

Moderator: Peter Rasmussen

1:00 pm **ELVO Stroke: Expanding the Indications**
Gabor Toth

1:20 pm **ICH Clot Evacuation: The Next Frontier of Acute Stroke Management?**
Mark Bain

1:40 pm **Treatment of AVM: The Cleveland Clinic Experience**
Nina Moore

2:00 pm **Innovations in AVM**
Adnan Siddiqui

2:20 pm **Case Discussion Panel: Complex AVM management. When and How to Treat**
Mark Bain, Chris Kellner, Adnan Siddiqui, John Suh

2:45 pm **Refreshment Break/Indoor & Outdoor Exhibits**

Session IV: Bench-to-Bedside: Translating Clinical Innovation

Moderator: Shazam Hussain

3:00 pm **Betting Wisely on the Future of Healthcare**
Peter O'Neill

3:30 pm **Virtual Health Innovations across the Stroke Continuum**
Peter Rasmussen

4:00 pm **Development and Commercialization of MR Angiography**
Thomas Masaryk

4:30 pm **Stem Cell Transplantation**
Gary Steinberg

5:00 pm **Panel Discussion: Learning from Both Failure and Success**
Thomas Masaryk, Peter O'Neill, Peter Rasmussen, Gary Steinberg

5:30 pm **Adjourn**

6:30 pm **Reception at Glidden House**

Agenda

Friday, June 8, 2018

7:00 am **Continental Breakfast/Indoor & Outdoor Exhibits**

7:45 am **Welcome and Introduction**
Ken Uchino

Session V: Concurrent Cerebrovascular Management Sessions

	Breakout Session A: * Advanced Simulation for Acute Stroke Care <i>Moderator: Dhimant Dani</i>	Breakout Session C: Pre-Hospital Acute Stroke Care, MSUs, and EDs <i>Moderator: Andrew Russman</i>	Breakout Session D: Hot Topics in Hemorrhagic Stroke Management <i>Moderator: Mark Bain</i>
8:00 am	Simulation #1 –Acute SAH Simulation #2 – Acute Ischemic Stroke <i>Samer Abubakr, Dhimant Dani, Brad Douglas, Joao Gomes, Zeshaun Khawaja, Tina Resser, Jayshree Sundararajan, Ken Uchino</i> * Space for this workshop is very limited	Acute Stroke Field Triage and Hospital Bypass Models <i>James Sauto</i>	Round Table Discussion: Dissecting Basilar Artery Management <i>Mark Bain, Brian Jankowitz, Chris Kellner, Michael Kelly, Adnan Siddiqui, Gary Steinberg, Gabor Toth</i>
8:30 am		Developing a Mobile Stroke Program <i>Andrew Russman</i>	
9:00 am		Mobile Stroke Unit: Door-to-Needle in 11 Minutes <i>Shazam Hussain</i>	
9:30 am		Panel Discussion: Maintaining the EMS-Stroke Relationship <i>Ken Papesh, Steve Rega, James Sauto, Bill Sillasen, Jayashree Sundararajan, Joe Warner, Herbert Waugh</i>	
10:00 am	Refreshment Break/Indoor & Outdoor Exhibits		
	Breakout Session B: Topics for Advanced Practice Providers <i>Moderator: Tina Resser</i>		
10:30 am	Functional Neuroanatomy <i>Dileep Nair</i>	Improving Your “Door-to-” Metrics <i>Dolora Wisco</i>	“When and How to Treat - Lessons I’ve learned” <i>Mark Bain, Shazam Hussain, Brian Jankowitz, Chris Kellner, Michael Kelly, Adnan Siddiqui, Gary Steinberg, Gabor Toth</i>
11:00 am	Neuro Angiography <i>Thomas Masaryk</i>	The Impact of a High-Reliability Telestroke System <i>Zeshaun Khawaja</i>	
11:30 am	Practice Management Discussion Panel. Practicing at the Top of Your Scope: Challenges and Innovations to Optimize Your APP Practice. <i>Barbara Douglas, Joseph Keller, Christine Lynch</i>	Clinical Outcomes of Mobile Stroke Unit Care <i>Ken Uchino</i>	

12:00 pm **Lunch/Indoor & Outdoor Exhibits**

Session VI: Advances in Neurocritical Care

Moderator: Joao Gomes

1:00 pm **Use of IT Antibiotics in NICU**
Christine Ahrens

1:25 pm **EEG Neuro Monitoring In Stroke Patients: Beyond Seizures**
Christopher Newey

1:50 pm **Early Mobility in ICU Patients: Single-Center Experience in Subarachnoid Hemorrhage**
Pravin George

2:15 pm **Intrathecal Drug Administration in Neuro-ICU patients**
Dhimant Dani

2:40 pm **Telemedicine-Enhanced Model of Care in the Neuro-ICU**
Joao Gomes

3:00 pm **Adjourn**

A five-minute question and answer period is included in each speaker’s allotted time

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Fee includes: Syllabus, continental breakfasts, refreshment breaks, lunch and Thursday evening reception.

	Early Bird Before April 30, 2018	After April 30, 2018
Physician	\$245	\$295
Non Physician	\$125	\$175
Resident/Fellow*	\$125	\$175

*Letter from program director is required to receive the discounted fee. Cleveland Clinic employee fees and registration are available online only.

Registration and Cancellation

Preregistrations are accepted online until **5:00 pm (EST), June 1, 2018**. To register after this date, please do so onsite. In case of cancellation, a full refund will be made if cancelled by May 21, 2018. After May 21, 2018, a \$50 cancellation fee will be deducted from your refund. Written notification of your cancellation is required in order to process your refund. **NO REFUNDS WILL BE ISSUED AFTER MAY 31, 2018.**

For questions about registration, call 216.448.8710 or email cmeregistration@ccf.org

General Information

Location

InterContinental Hotel and Bank of America Conference Center
9801 Carnegie Avenue Cleveland, OH 44106
Phone: 216.707.4100 or 877.707.8999
www.intercontinentalcleveland.com

Hotel Accommodations

Hotel reservations are separate from the course registration and are the responsibility of the participant. A block of rooms have been reserved at the InterContinental Hotel for a rate of \$159 plus tax. Please call 216.707.4100 to make your reservation.

The cut-off date for the special rate is May 7, 2018.

Parking

Parking is available in the 100th Street Visitor's Parking Garage at prevailing rates. Valet parking at the hotel is available for an additional charge.

Accreditation

The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 13.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

The Ohio Board of Nursing will accept at face value the number of contact hours awarded for an educational activity that has been approved for CE by a nationally accredited system of CE approval. Nurses are able to obtain CE that has been approved or provided by a nationally recognized accreditation system of continuing education.

Examples include:

- The American Nurses Credentialing Center (ANCC)
- The Accreditation Council for Continuing Medical Education (ACCME)
- The International Association for Continuing Education and Training (IACET)
- Ohio EMS Continuing Education credits will be awarded, EMS Site #1409

Faculty Disclosure Statement

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

Information

For further information about this activity, contact Shana Spade at:
Phone: 800.223.2273 x49380
Email: spades@ccf.org

Americans with Disabilities Act

The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify us at least two weeks prior to the activity.

Cleveland Clinic Center for Continuing Education reserves the right to *cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.*